

RTS Pedestrian Bridge
West Landing

Design Review Board
August 24, 2021



Route 520 Highway

RTS Pedestrian Bridge
West Landing

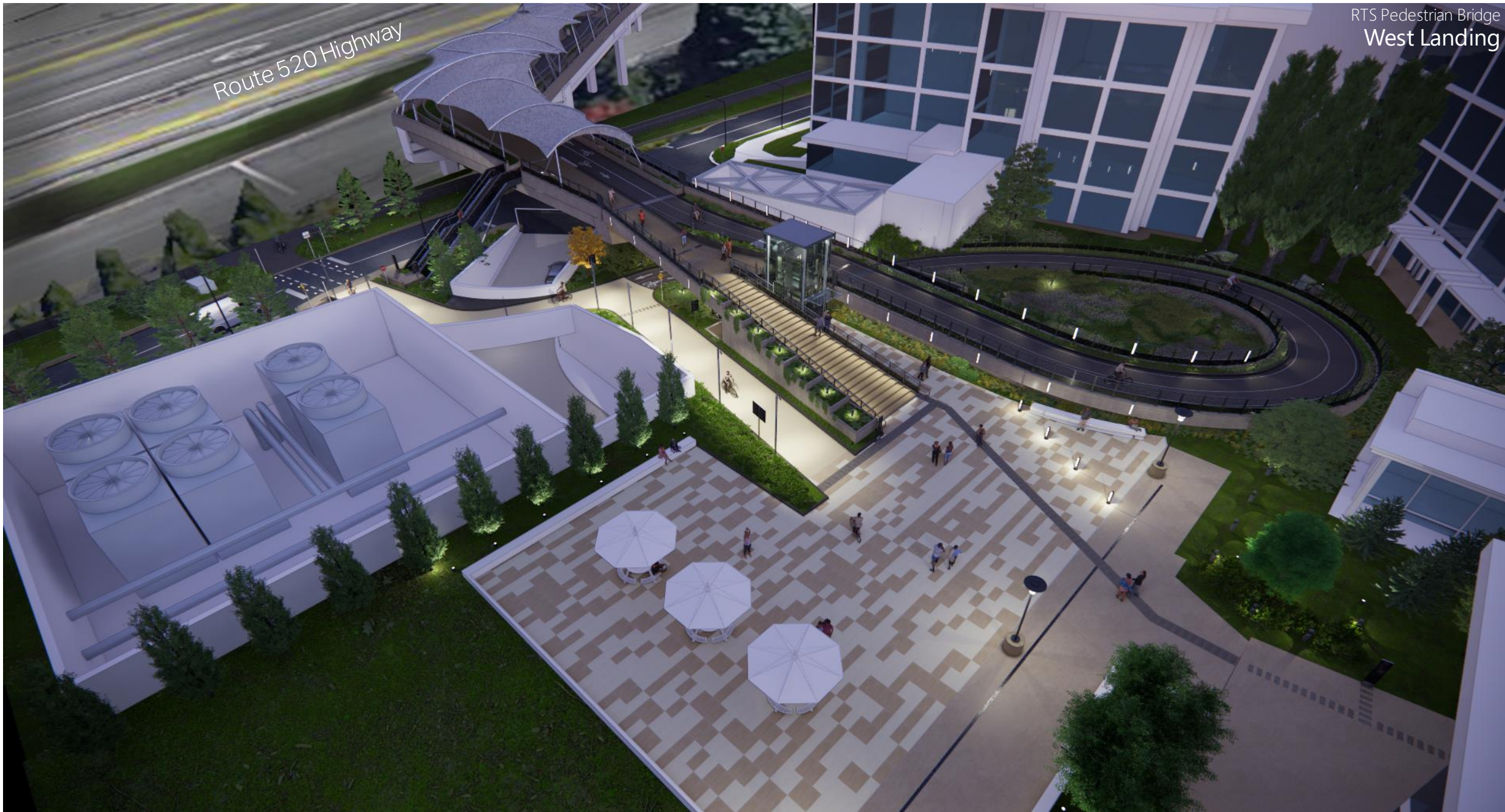


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RTS Bridge West Landing Narrative

Design Goals:

- Provide an esthetically pleasing transition from the RTS Pedestrian Bridge to Microsoft's West Campus
- Every design decision can raise or lower barriers to participation in society. Our collective goal is to lower these barriers through inclusive design
- A design methodology that enables and draws on the full range of human diversity
- Provide a Sustainable and Cohesive Design, building off the design concepts already established on the RTS Ped Bridge and East Campus Landing
- Provide an All-Inclusive Design for the West Landing benefiting every user by promoting accessibility and usability, allowing people with all levels of ability independent use
- Provide an arrival experience where everyone arrives at the same location
- Accessible qualities to make an experience open to all

Design Challenges:

- The vertical transition from the RTS Ped Bridge requires a unique solution to maintain an All-Inclusive Design approach.
- The site is constrained by existing buildings and sits above an underground parking structure
- The existing structures and their horizontal and vertical complexities meant a unique approach for an aesthetically pleasing design is warranted
- Challenges included bearing forces on surrounding buildings and structures needed to be weighed carefully
- Simplicity in providing clear directional sightlines to the West Campus required an elegant low-profile design to maintain an openness and visual approach to the West Campus



Building a Better Future With Inclusive Design

Narrative

The RTS West Landing connects the RTS Pedestrian Bridge at Pier 1 to Microsoft's West Campus. The pedestrian pathway and the bike pathway connect to the pathways of the RTS Pedestrian Bridge

- The slope of the pathways is designed to never exceed 5%
- The West Landing is envisioned to be a poured in place concrete structure with an attractive concrete topping slab matching the RTS Pedestrian Bridge design. Scored and integrally colored concrete, curbed pathway and landscape edge planters are planned for the West Landing bridge and bike path
- The West Landing bridge is supported by concrete piers with pile foundations. A portion of the West Landing bike path and stairway sit atop an existing underground parking garage.
- The pedestrian and bike pathway finishes match the RTS Pedestrian Bridge design with colored and textured concrete
- There is a grand stairway leading from the West Landing bridge to the plaza. A metal guardrail and handrail will match the RTS bridge design
- An integrated light design of the handrail is a part of the stairway.
- A two-stop glass enclosed, and glass and steel elevator cab is envisioned to serve the plaza level and bridge level.
 - The elevator is capable of handling a flat gurney of 24"x84" when lying flat and will serve as the Emergency Medical Responder's (EMR) access to the West Landing bridge.
 - The elevator doors are envisioned to be framed glass allowing the elevator to be visible through from one side to the other.

There is an additional bridge planned for the shared pathway spanning over the top of the existing parking garage entry.

- This shared pathway connects the 520-bike trail to the Microsoft west campus and will include a new opening through the existing fencing of the 520-bike trail.

Landscaping:

The West Landing Landscape design is planned around six planting zones creating a cohesive transition between the RTS Pedestrian bridge, the West Campus, and the campus access road.

- Each zone builds on the RTS bridge and campus landscape with similar character, form, and massing with an emphasis on native plants and natural planning communities.

The six zones are made up of the Landing, Terrace, Clearing, Understory, The edge, and the Streetscape.

- The landscaping of the built structures will be an extension of the RTS bridge using matching hardscape materials and plants with an emphasis on plants that will tolerate shallow soil conditions on structure.
- Dense, lush fernery will take advantage of the deep shade beneath both the West Landing and RTS bridge structures.
- Varied fern textures and shades of green will play off the warm tones of the soffits above.
- Transitional plantings that knit the West Landing with the West Campus will be used.
- Similar forms and massing to the existing campus landscaping with an emphasis on native plants for foundation shrubs and seasonal accents.
- A staggering of bloom times will provide seasonal variation and interest and habitat benefitting the pollinator species.



Limits Of Work

Pathway Access To 520 Trail

Pedestrian Walkway
And Grand Stairway

RTS Ped Bridge Canopy
Is NOT Part of West Landing

Bicycle Pathway

1. the LANDING

2. the CLEARING

3. the UNDERSTORY

4. the EDGE

5. the PLAZA

SITE PLAN

West Landing



The Clearing

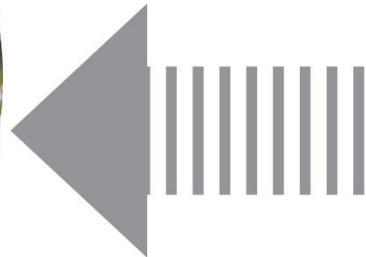
Arrival Point
Open
Bright
Transitional
Seasonality

RTS Pedestrian Bridge



Forest Understory

Passage
Covered
Lush
Shaded



DESIGN CONCEPT

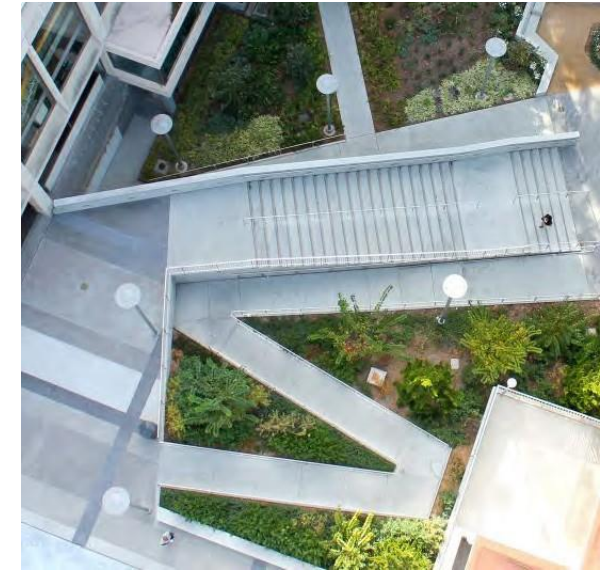
Inclusive



Welcoming



Transition



Welcoming

Urban Nature

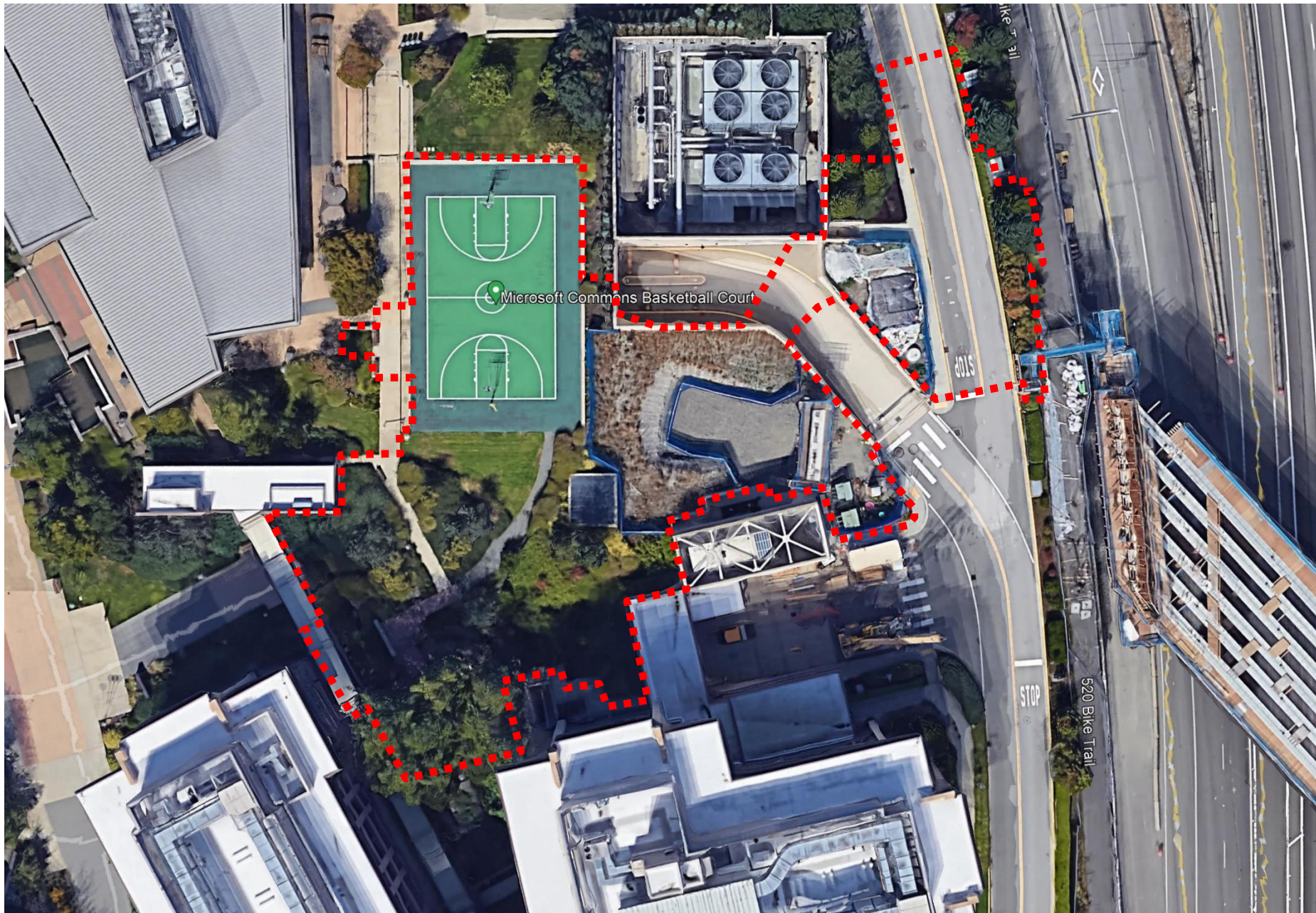


VISION BOARD

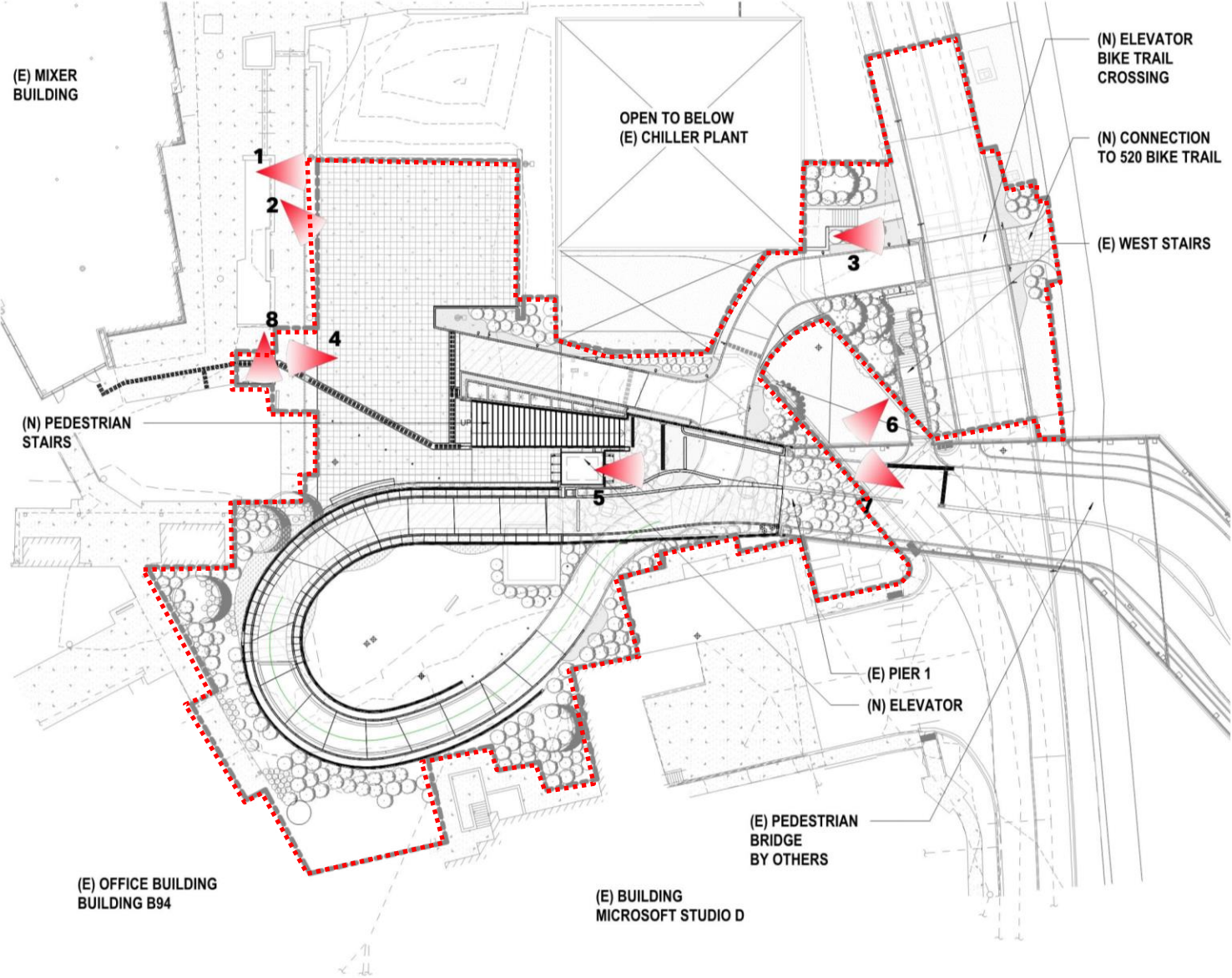
RTS Ped Bridge West Landing Existing Conditions



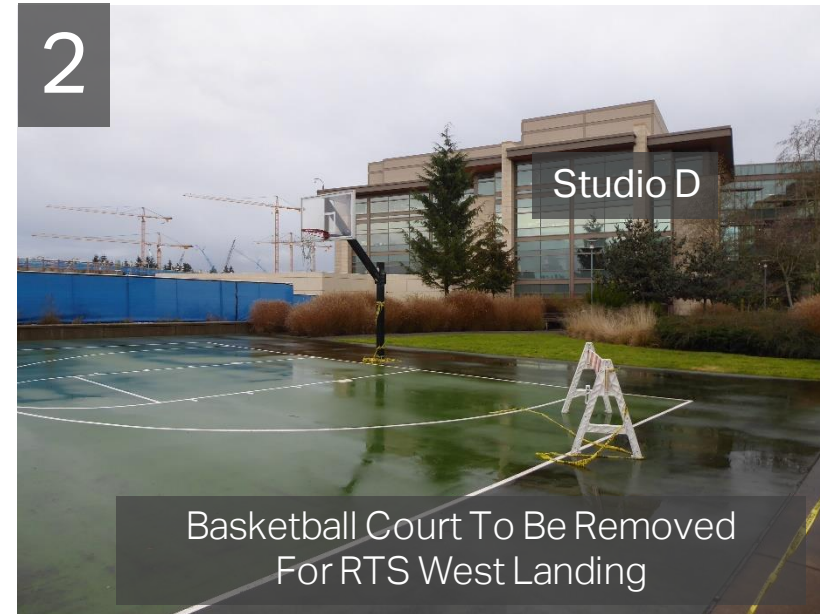
Limits of Work

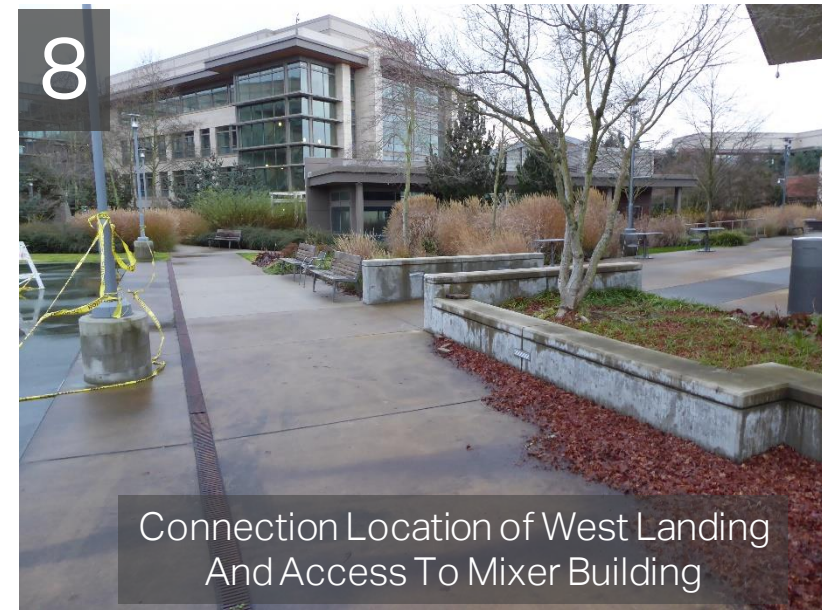


Existing Conditions Site Photo



Existing Conditions





Existing Conditions

RTS Ped Bridge West Landing Planning and Design



West Landing
Plaza

Proposed Grand
Stairway

Proposed Elevator
Serving The RTS
Pedestrian Bridge
And West Landing
Plaza

Proposed
West Landing
Dedicated Bike Pathway

Proposed Opening
At 520 Trail

Proposed Shared
Pathway From 520
Trail To West Campus

RTS Pedestrian
Bridge and Canopy
Is Not A Part Of The
West Landing



Contextual Site/Floor Plan

Metal Roof
Of New Elevator

RTS Ped Bridge
Roof Canopy
NOT A Part of
West Landing



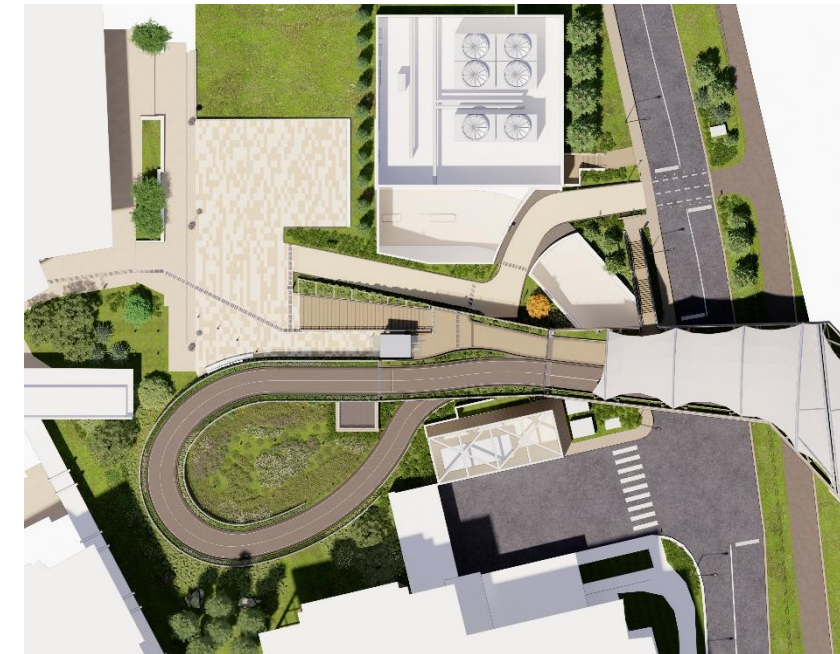
Roof Plan

RTS Ped Bridge West Landing Conceptual Design





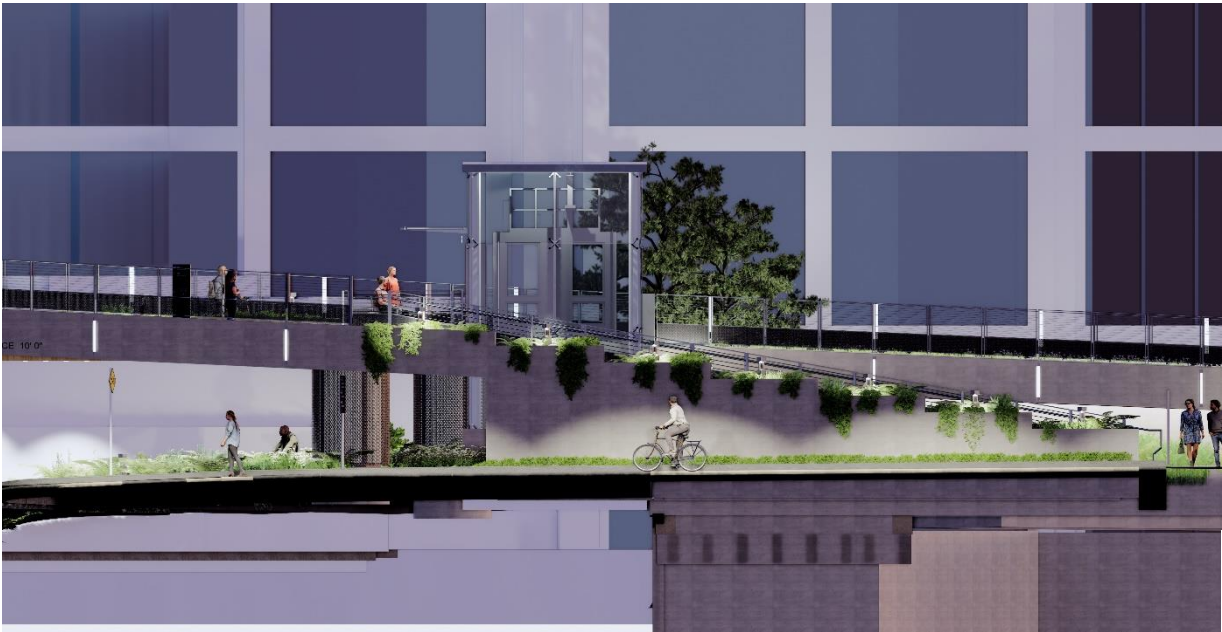
West
Elevation



Plan View



East
Elevation



North
Elevation



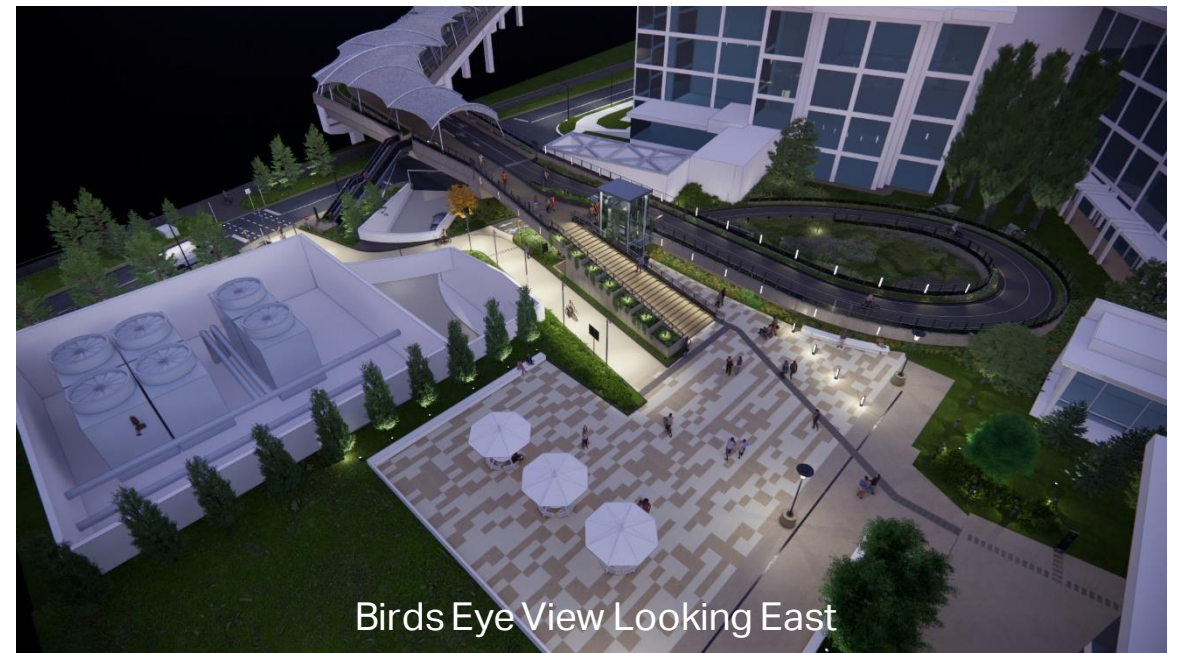
Plan View



South
Elevation



Birds Eye View Looking West



Birds Eye View Looking East



Birds Eye View of West Plaza



Eye Level View of West Plaza





Bike Pathway



Bike Pathway



Shared Path To West Campus



Shared Pathway From 520 Trail
To West Campus and RTS Bridge Bike Path



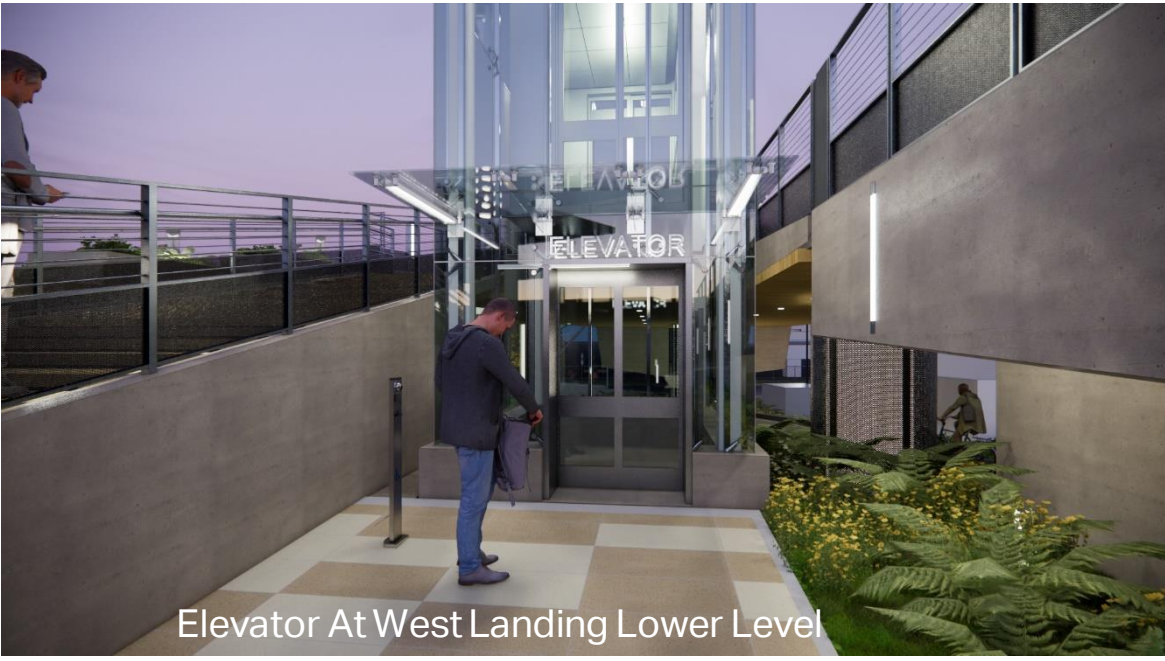
Pedestrian Path To West Campus



Elevator and Grand Stairway



Elevator At West Landing Upper Level



Elevator At West Landing Lower Level



Grand Stairway and West Plaza



Elevator Access to West Plaza



Shared Pathway and Grand Stair



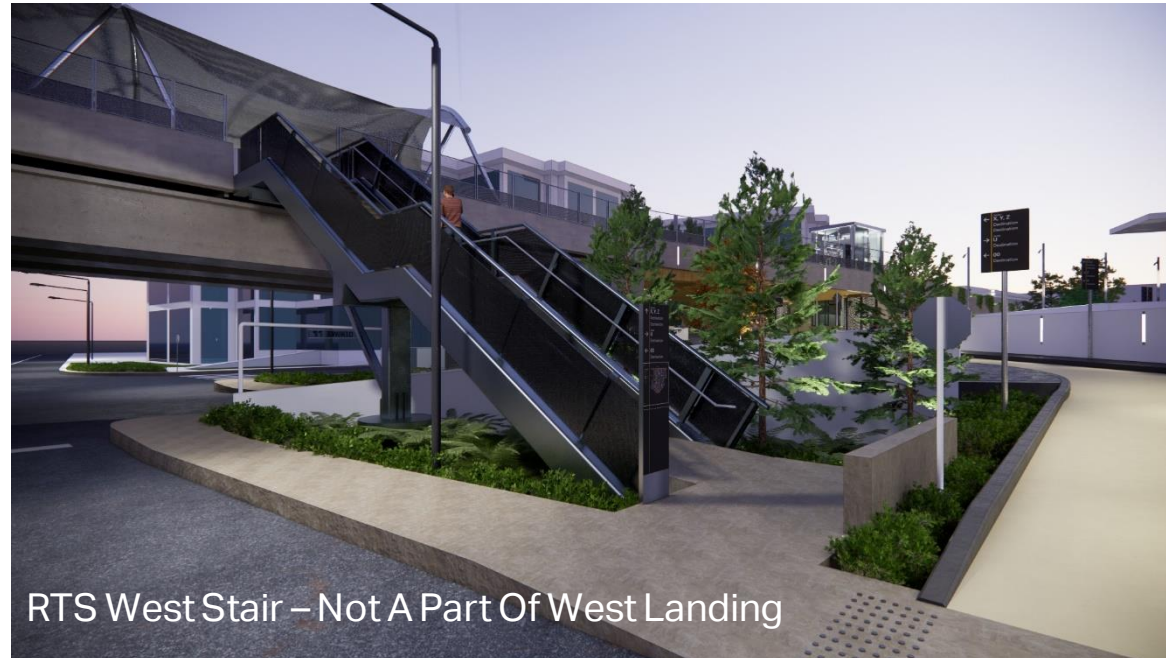
West Plaza



Shared Pathway To 520 Trail



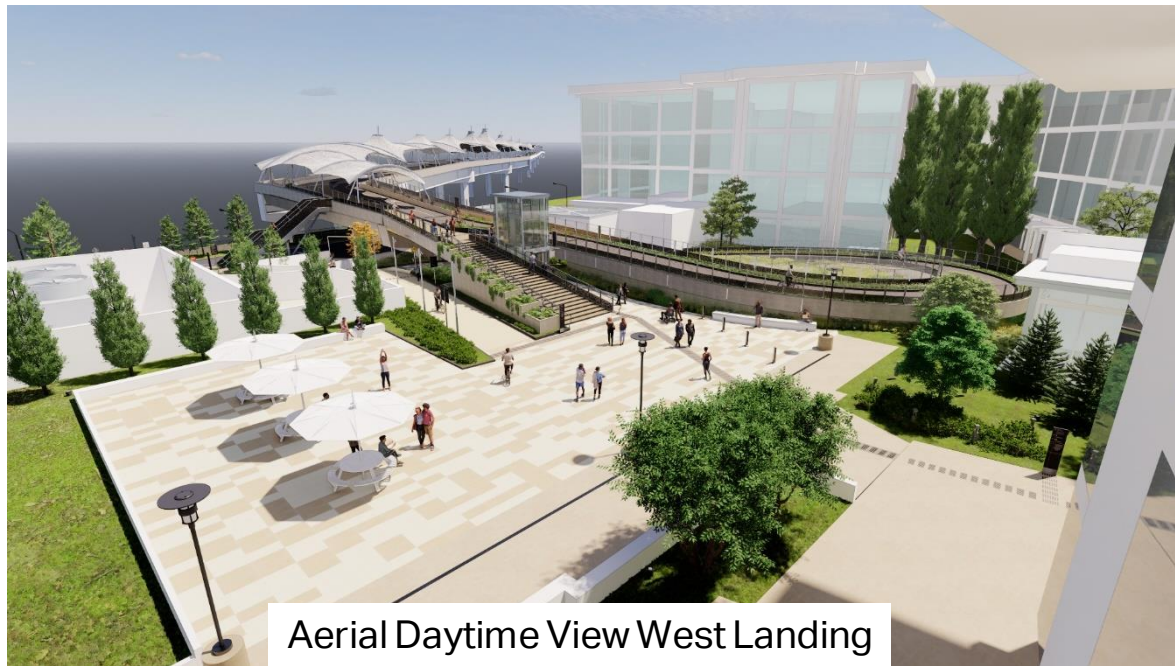
Proposed Elevated Crossing At
Service Road Connecting 520
Trail and Shared Pathway



RTS West Stair – Not A Part Of West Landing



520 Trail Connection Pathway



Aerial Daytime View West Landing



Aerial View Of Bike Loop Pathway



Aerial Daytime View West Landing

Structural Design Option

RTS Pedestrian Bridge
West Landing



Option 1
3 Column Structural Solution

Site Plan



Option 2
4 Column Structural Solution

Site Plan

- A Structural Review of the West Landing Bridge May Result In An Additional Structural Column Supporting The West Landing Bridge Connection To The RTS Ped Bridge
- Final Design Solution Will Be Able To Accommodate Either Condition With Similar Aesthetics



Option 2 – 4th Column Structural Design



Option 1 – 3 Column Structural Design



Option 2 – 4th Column Structural Design

RTS Ped Bridge West Landing Hardscaping and Planting





1. the LANDING
2. the CLEARING
3. the UNDERSTORY
4. the EDGE
5. the PLAZA

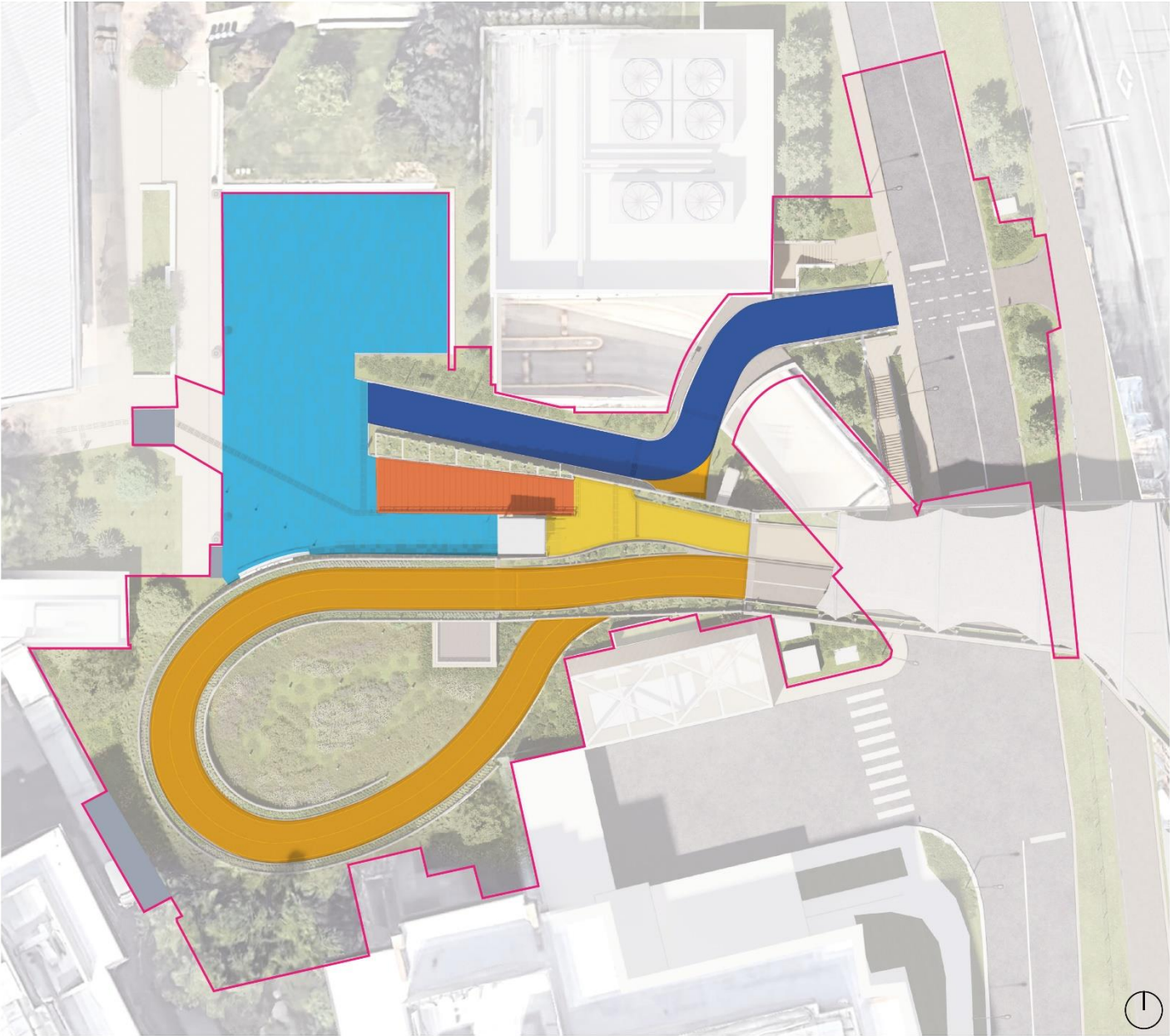
Contextual Site Plan



*With a complimentary design concept and matching materials and finishes,
the West Landing is an extension of the RTS Pedestrian Bridge.*

RTS PEDESTRIAN BRIDGE

Hardscape

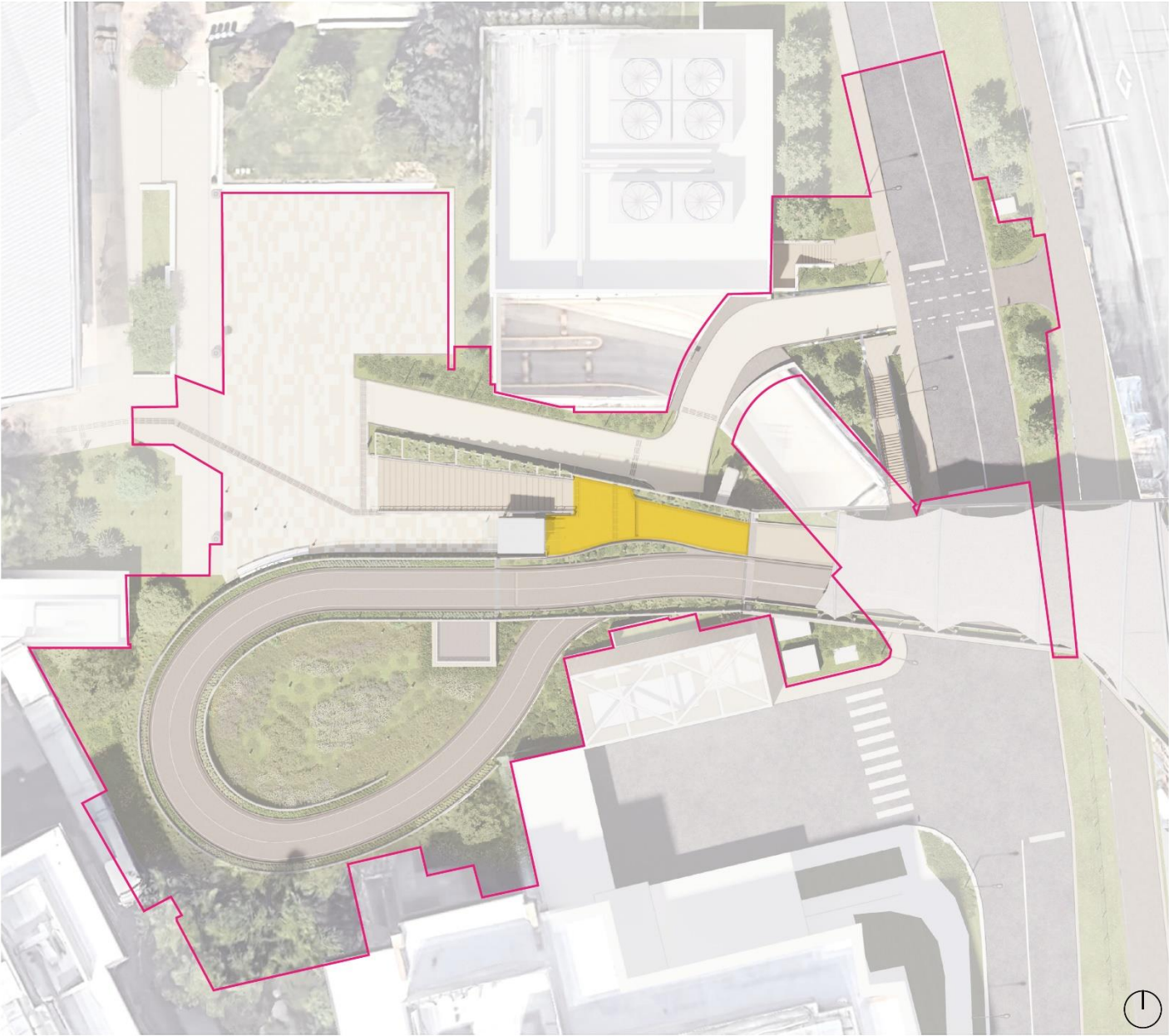


LEGEND

- Limit of Work Line
- Landing Pedestrian Paving
- West Landing Grand Stair
- Dedicated Bike Path
- Plaza Pavers
- Plaza / Shared Use Path
- Infill Paving (Match Existing)

PAVING MATERIALS

Hardscape



Rendering of RTS Pedestrian Bridge material selections

Paving Field

Accent Band



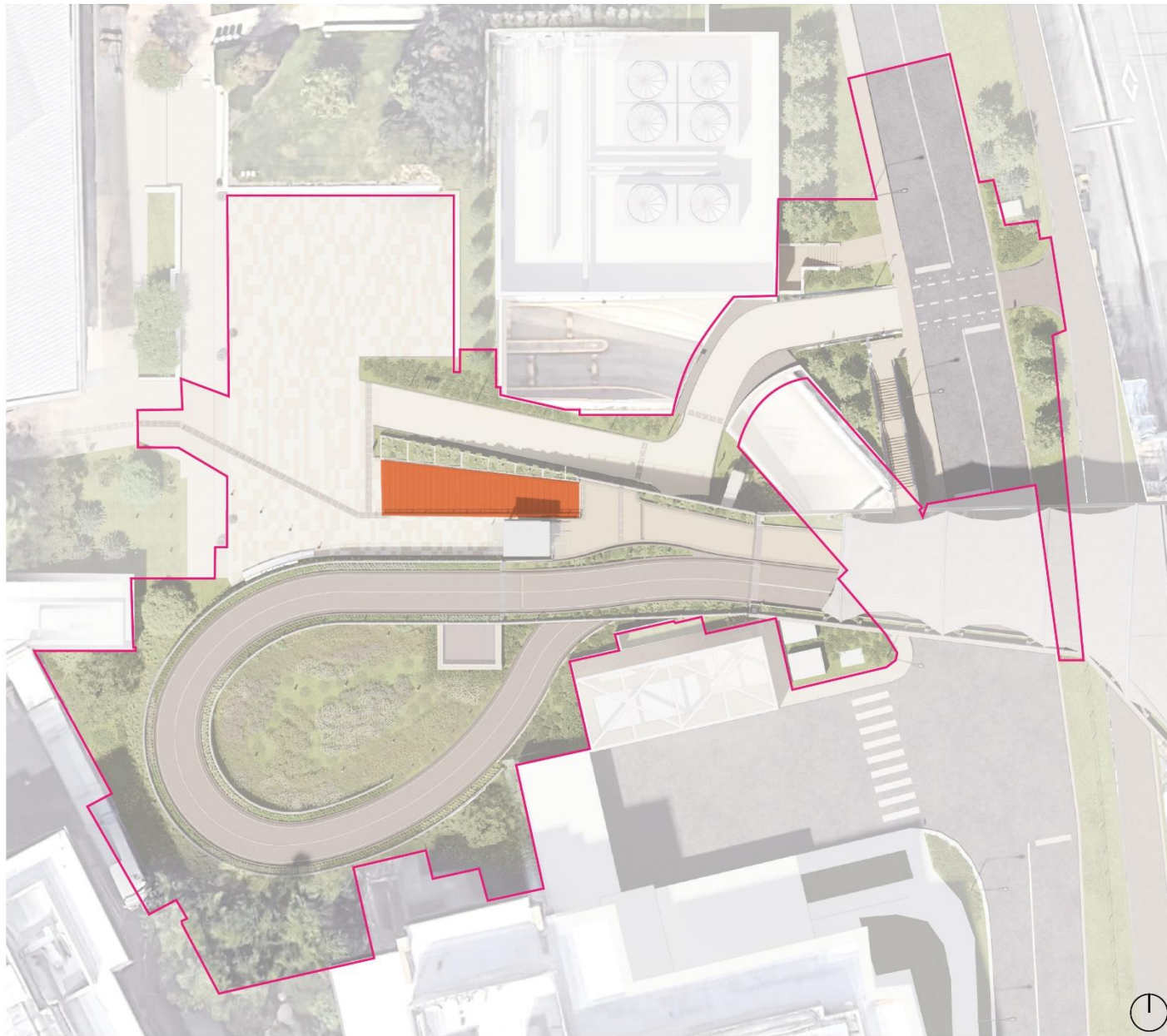
Cast-In-Place Concrete
(Palomino -25%, 25 Etch)

Cast-In-Place Concrete
(Palomino -25%, 25 Etch)



LANDING PEDESTRIAN PAVING

Hardscape



Stair Tread



Cast-In-Place Concrete
(Palomino -25%, 25 Etch)



WEST LANDING GRAND STAIR

Hardscape

Shared Use Path

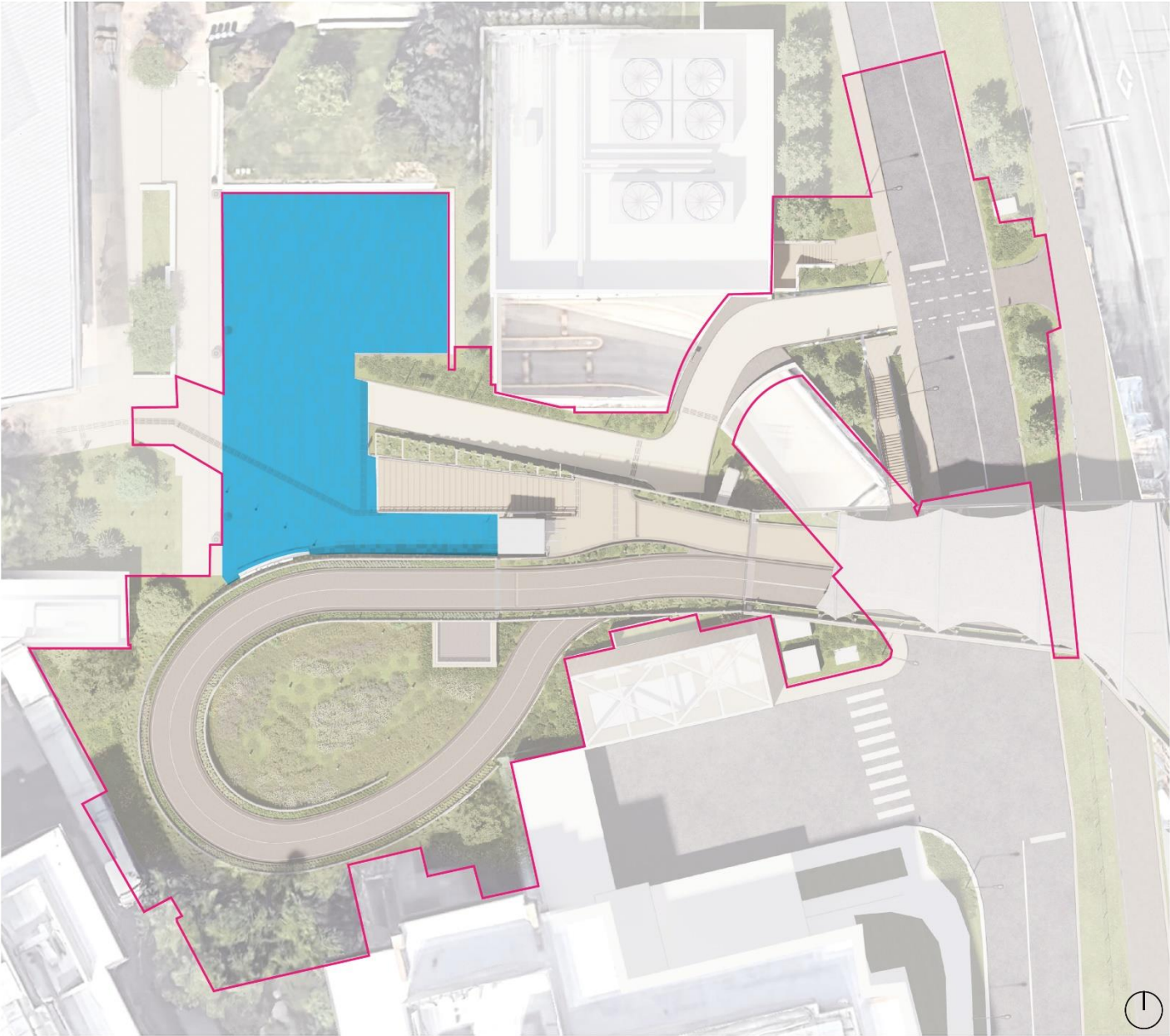


Cast-In-Place Concrete
(Palomino -25%, 25 Etch)



SHARED USE PATH

Hardscape



PLAZA PAVING

Plaza Pavers



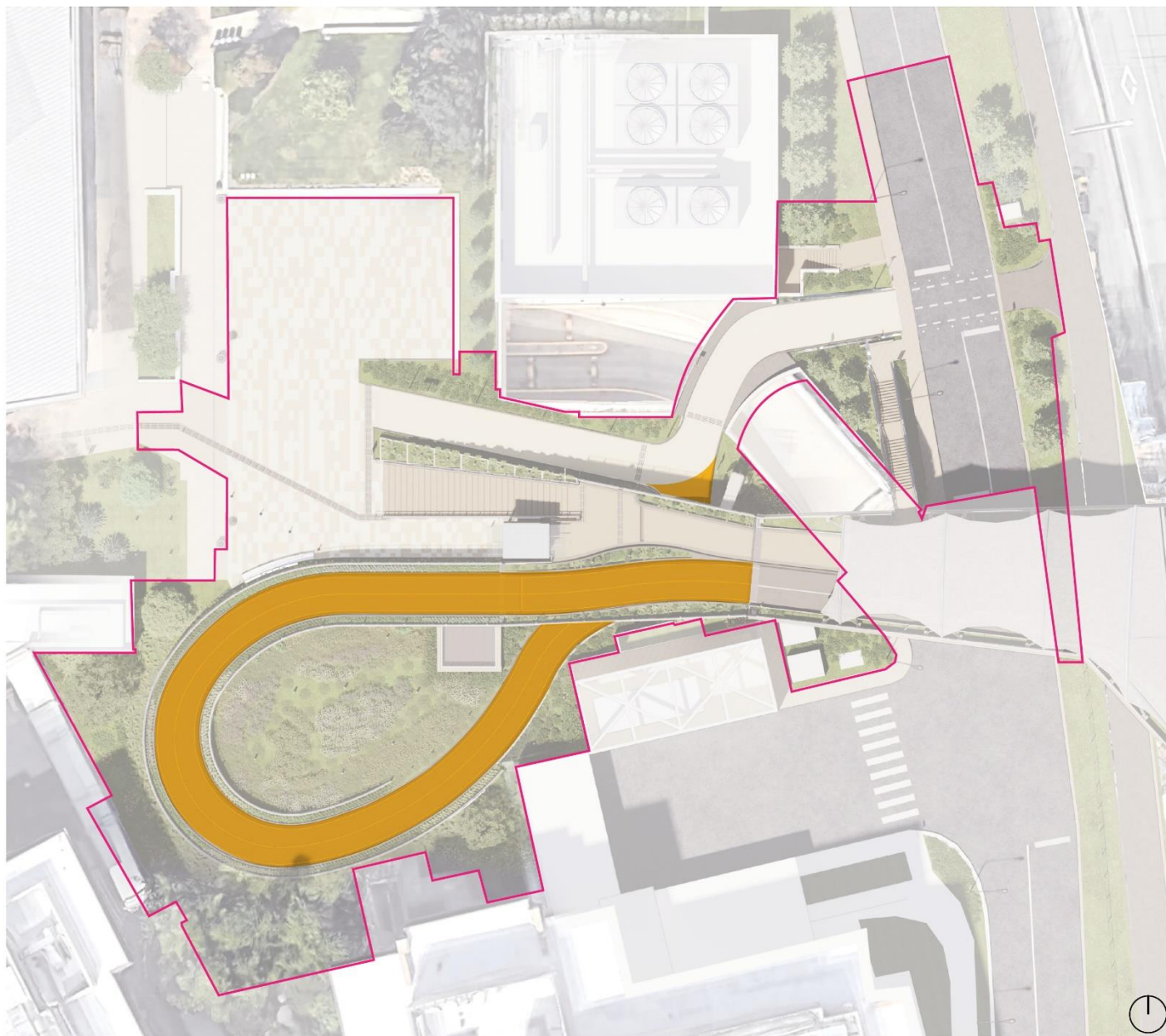
Precast Paver
Harvest, "Sandstone" Finish



Precast Paver
Latte, "Sandstone" Finish



Hardscape



DEDICATED BIKE PATH



Rendering of RTS Pedestrian Bridge material selections

Paving Field



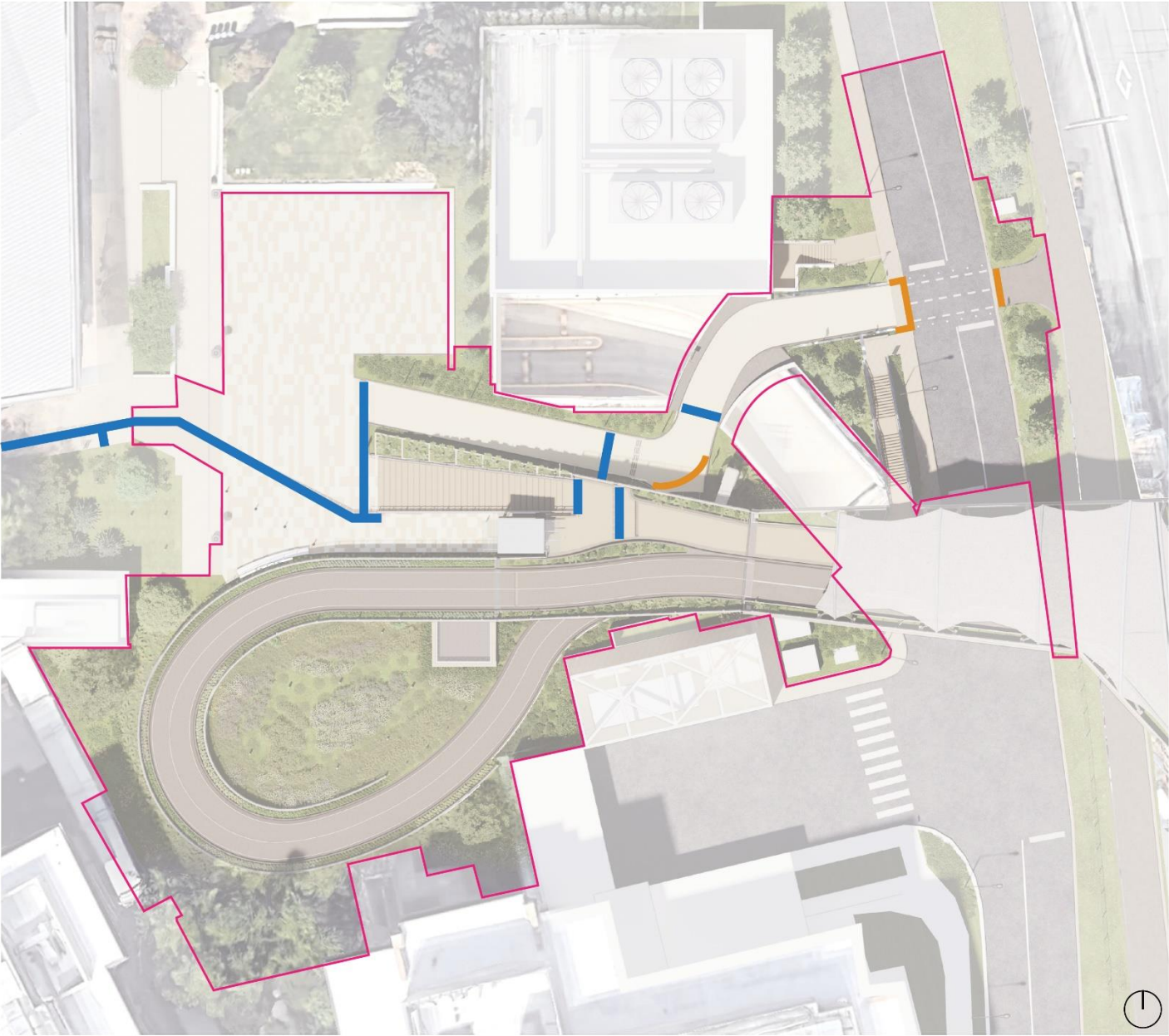
Cast-In-Place Concrete
(Sierra, 05 Etch)

Accent Band



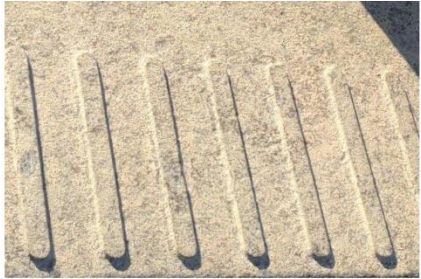
Cast-In-Place Concrete
(Sierra, 25 Etch)

Hardscape

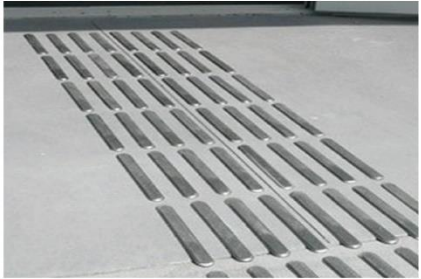


TACTILE INDICATORS

Tactile Wayfinding Indicators



Integrated Tactile Surface Paver



Surfaced-mounted Bars

Tactile Warning Indicators



Surface-mounted Domes



Precast Truncated Dome Paver

LEGEND

- Limit of Work Line
- Tactile Wayfinding Indicator
- Tactile Warning Indicator



LANDING MATERIALS AND FINISHES - ARCHITECTURAL

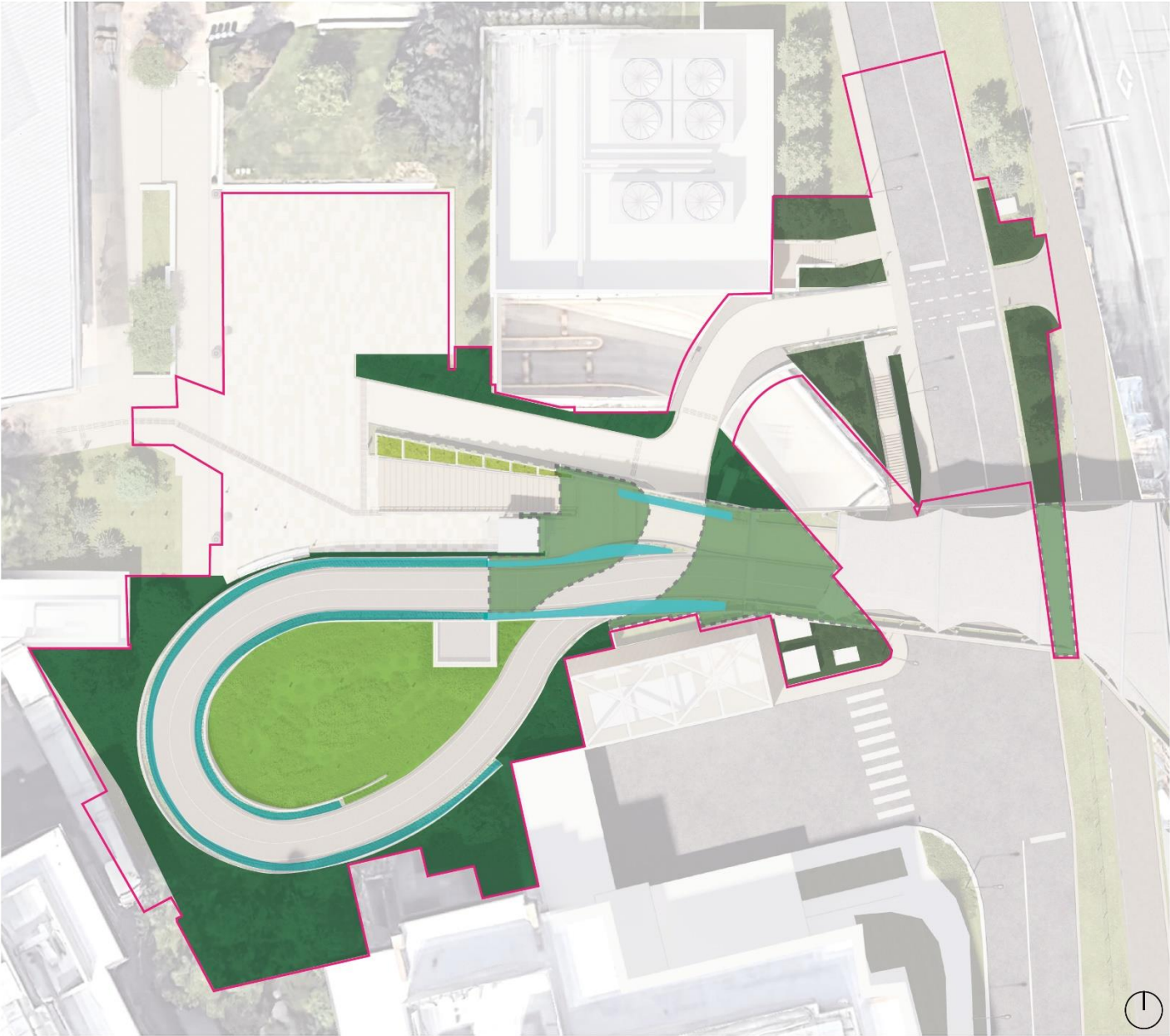


LANDING MATERIALS AND FINISHES - HARDSCAPE



PLAZA MATERIALS AND FINISHES - HARDSCAPE

Planting

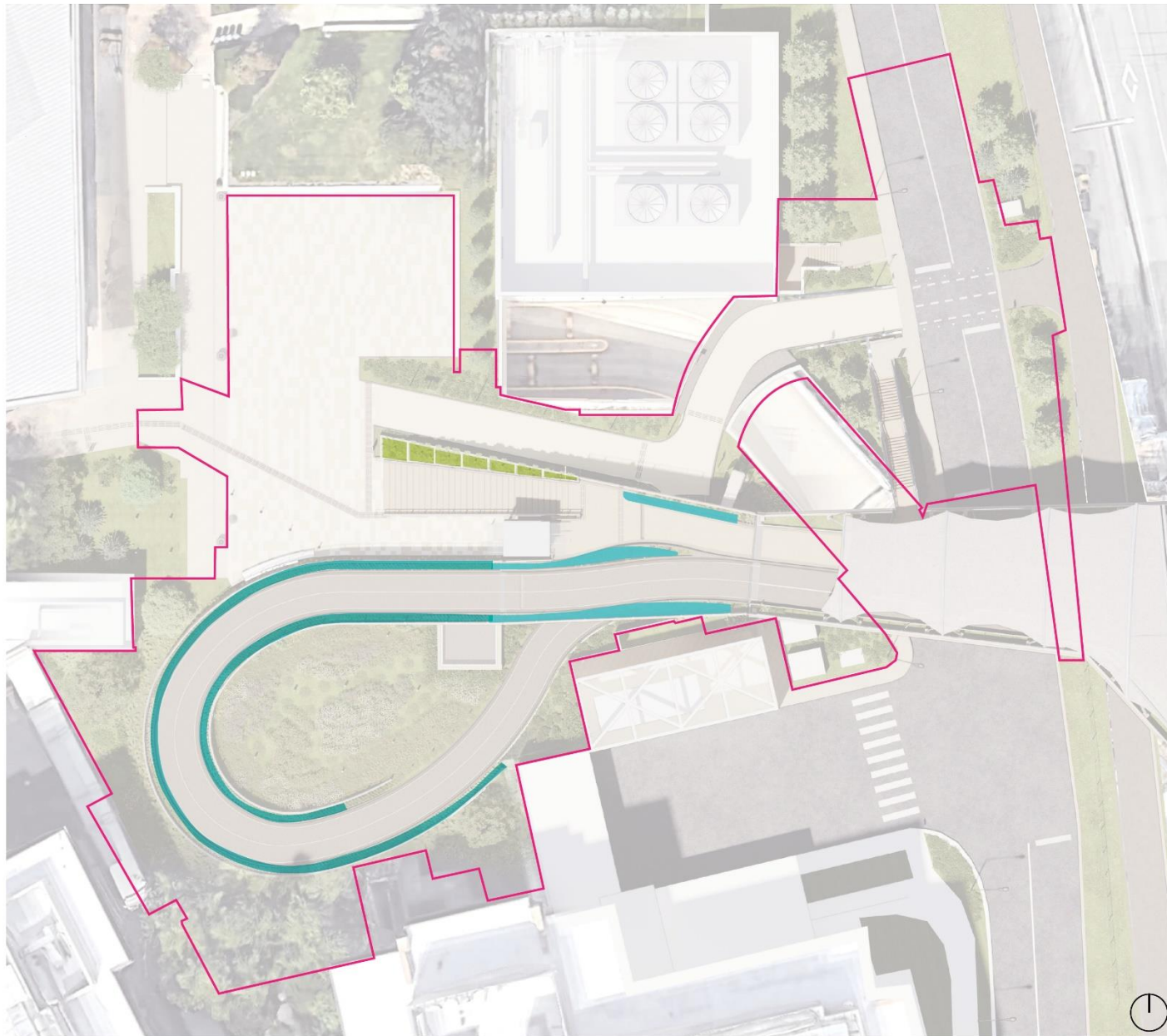


LEGEND

- Limit of Work Line
- the Landing
- the Terrace
- the Clearing
- the Understory
- the Edge
- the Streetscape

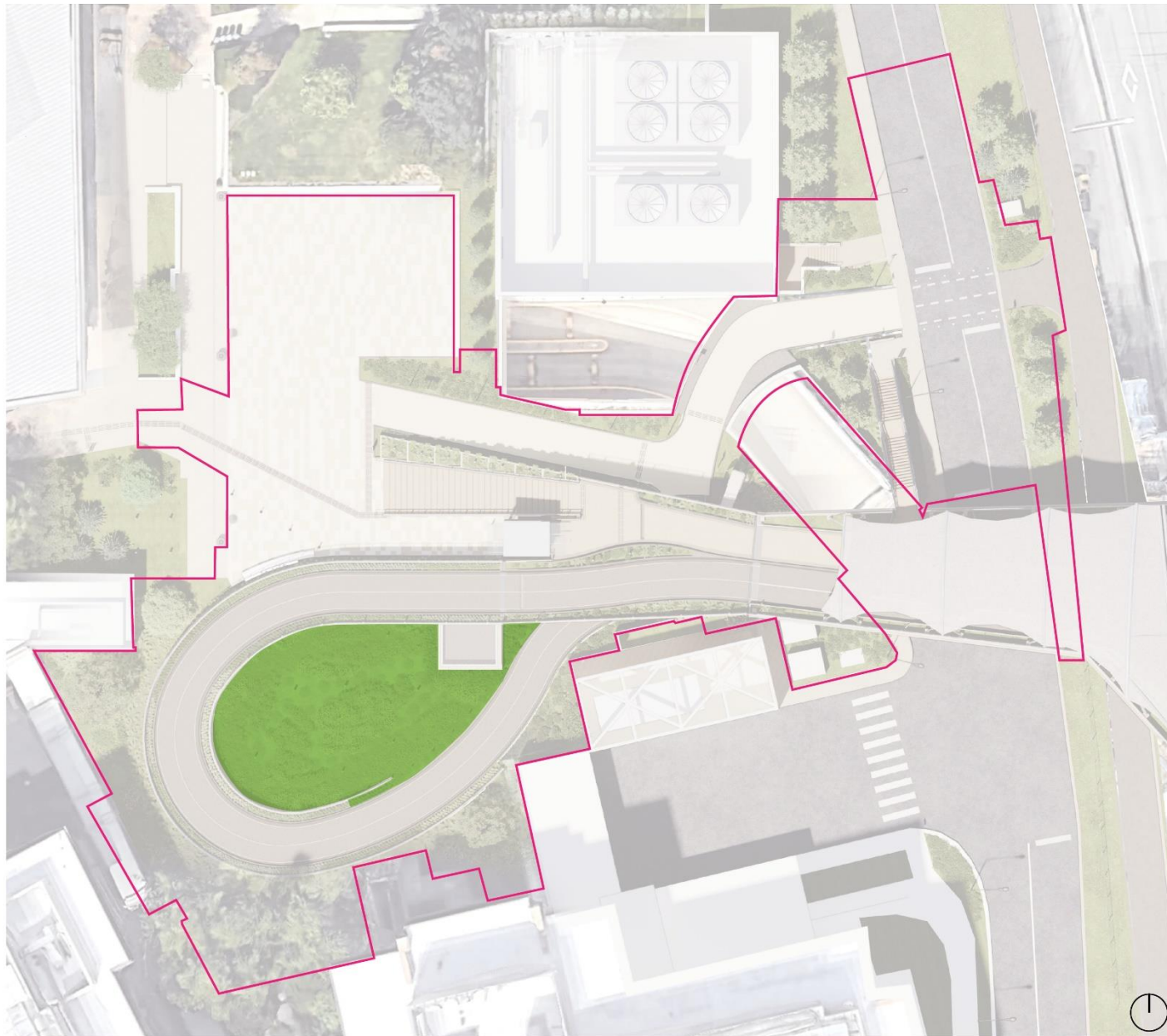
PLANTING ZONES

Planting



the LANDING AND TERRACE

Planting



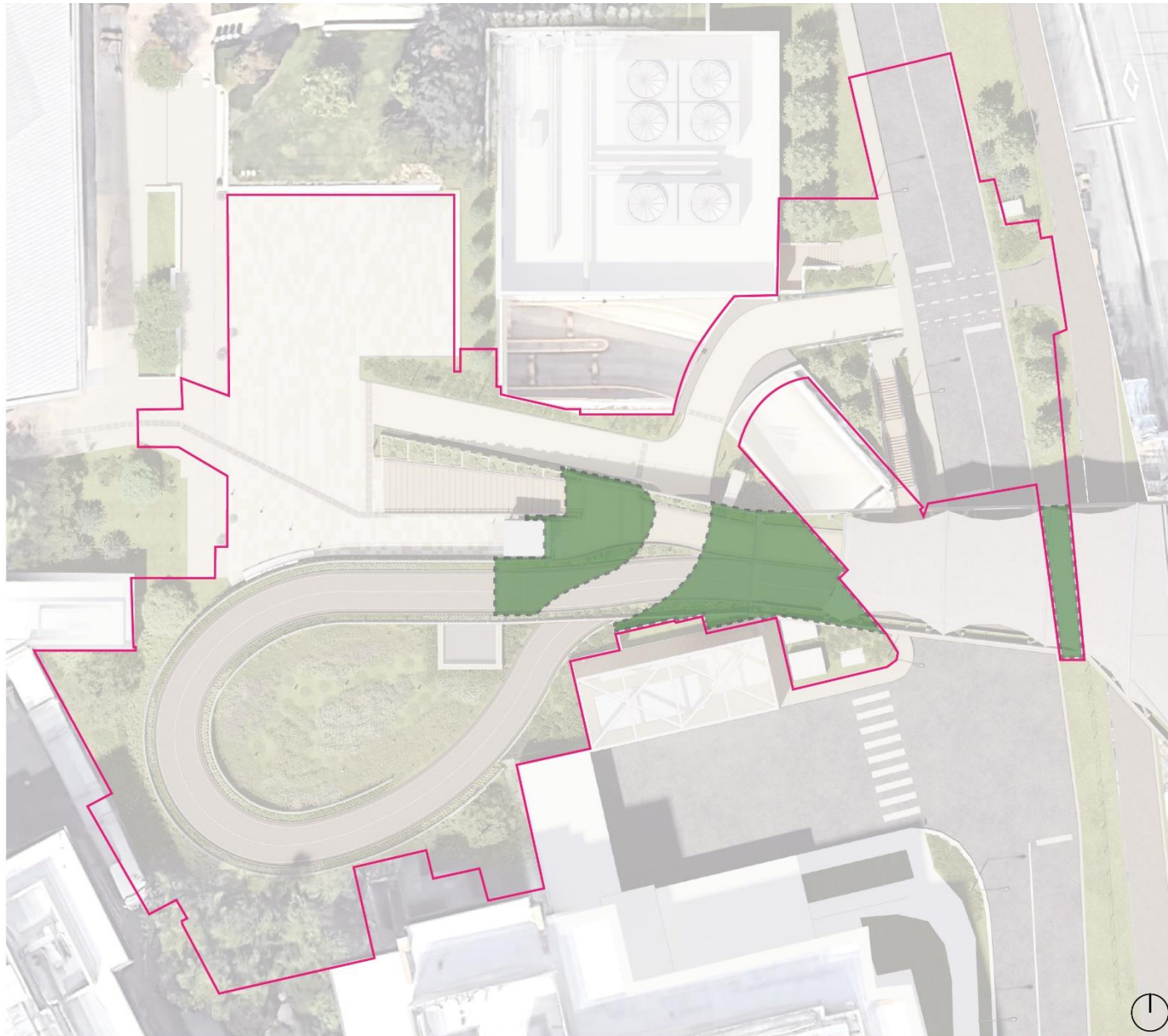
the CLEARING





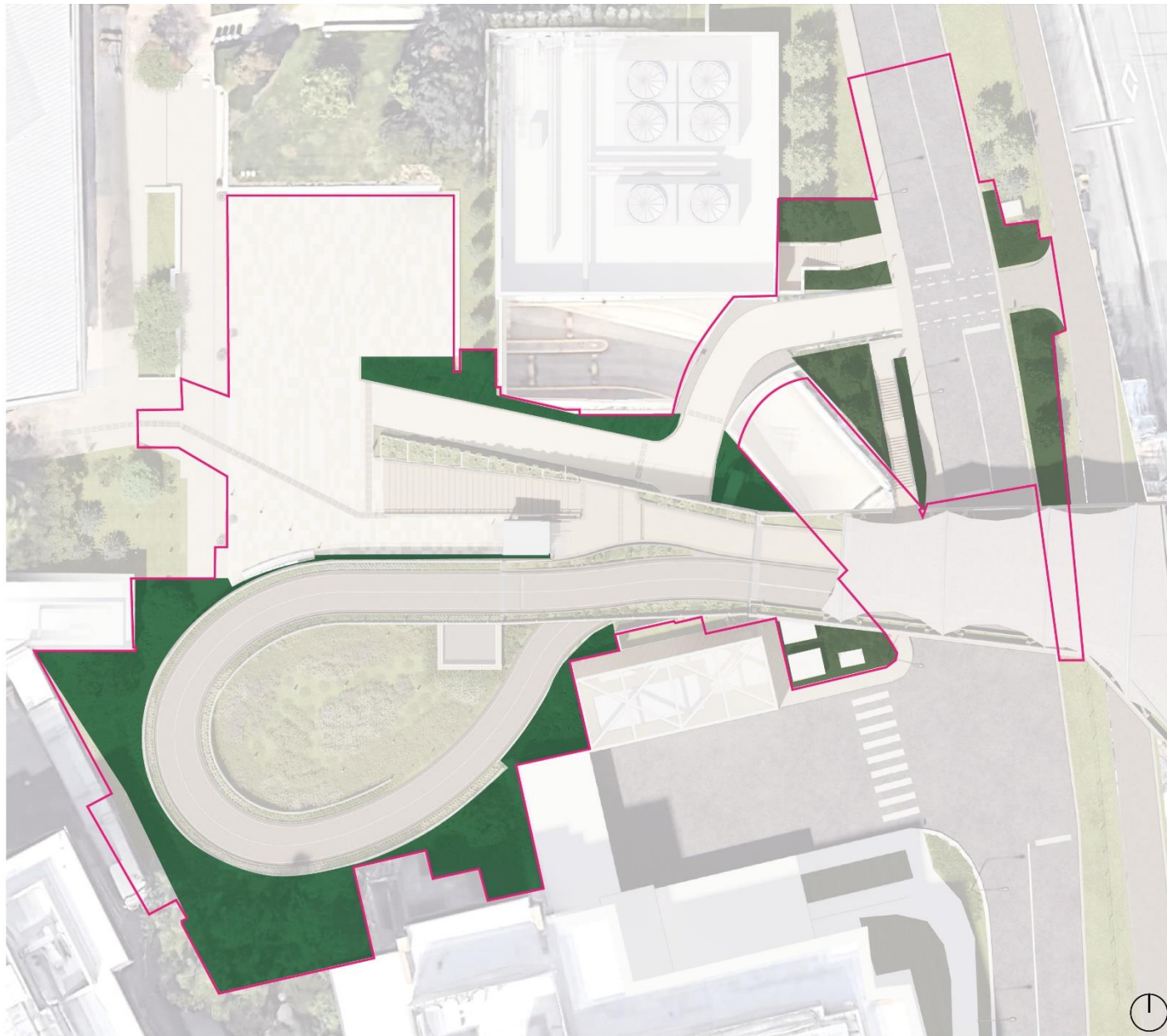
the CLEARING: BLOOM CHART

Planting








the UNDERSTORY

Planting



the EDGE AND STREETSCAPE

TREE SCHEDULE

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONT	WATER USE	QTY
	BET NIG	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	2" CAL	B&B	MOD	3
	COR NUT	CORNUS NUTTALLII / PACIFIC DOGWOOD	3" CAL	B&B	MOD	4
	ZEL CSP	ZELKOVA SERRATA 'CITY SPRITE' / CITY SPRITE ZELKOVA	4" CAL	B&B	MOD	1
EVERGREEN TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONT	WATER USE	QTY
	JUN TOR	JUNIPERUS CHINENSIS 'TORULOSA' / HOLLYWOOD JUNIPER	10" H MIN	B&B	MOD	2
	THU EXC	THUJA PLICATA 'EXCELSA' / WESTERN RED CEDAR	12" H MIN	B&B	MOD	1

LANDING SCHEDULE

SHRUBS	CONT	WATER USE
LEWISIA COTYLEDON / LEWISIA	4" POT	MOD/LOW
RUDBECKIA HIRTA / BLACK-EYED SUSAN	1 GAL	MOD/LOW
ZAUSCHNERIA CALIFORNICA 'WAYNE'S SELECT' / CALIFORNIA FUCHSIA	1 GAL	MOD/LOW
ANNUALS/PERENNIALS	CONT	WATER USE
AQUILEGIA FORMOSA / WESTERN COLUMBINE	1 GAL	MODERATE
EPILOBIUM ANGUSTIFOLIUM / FIREWEED	1 GAL	MOD/LOW
ERIGERON GLAUCUS / BEACH DAISY	1 GAL	MODERATE
IRIS DOUGLASIANA / DOUGLAS IRIS	1 GAL	MOD/LOW
SISYRINCHIUM SEPTENTRIONALE / NORTHERN BLUE EYED GRASS	1 GAL	LOW
FERN	CONT	WATER USE
ATHYRIUM FILIX-FEMINA / COMMON LADY FERN	1 GAL	MODERATE
POLYSTICHUM MUNITUM / WESTERN SWORD FERN	1 GAL	MODERATE
GROUND COVERS	CONT	WATER USE
ASARUM CAUDATUM / WILD GINGER	4" POTS	LOW
FRAGARIA VESCA / WOODLAND STRAWBERRY	4" POTS	MODERATE
OXALIS OREGANA 'SMITH RIVER' / REDWOOD SORREL	4" POTS	LOW
SATUREJA DOUGLASII / YERBA BUENA	1 GAL	LOW

CLEARING SCHEDULE

SHRUBS	CONT	WATER USE
ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK	1 GAL	LOW
CAMASSIA LEICHTLINII / GREAT CAMAS	BULB	MOD/LOW
CAMASSIA QUAMASH / SMALL CAMAS	BULB	MOD/LOW
ANNUALS/PERENNIALS	CONT	WATER USE
EPILOBIUM ANGUSTIFOLIUM / FIREWEED	1 GAL	MOD/LOW
GROUND COVERS	CONT	WATER USE
SATUREJA DOUGLASII / YERBA BUENA	1 GAL	LOW

CLEARING MEADOW SEED MIX



CLEARING MEADOW MIX
ACHILLEA MILLEFOLIUM / COMMON YARROW
AMSIKIA MENZIESII INTERMEDIA / FIDDLENECK
BROMUS CARINATUS / CALIFORNIA BROME
CAREX PACHYSTACHYA / CHAMISSO SEDGE
CLARKIA AMOENA / FAREWELL TO SPRING
DANTHONIA CALIFORNICA / CALIFORNIA OATGRASS
DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS
ERIOPHYLLUM LANATUM 'SISKIYOU' / SISKIYOU WOOLLY SUNFLOWER
GILIA CAPITATA / BLUE THIMBLE FLOWER
HORDEUM BRACHYANTHERUM / MEADOW BARLEY
LILIUM COLUMBIANUM / TIGER LILY
LUPINUS RIVULARIS / RIVERBANK LUPINE

EDGE SCHEDULE

SHRUBS	CONT	WATER USE
ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK	1 GAL	LOW
BACCHARIS PILULARIS / COYOTE BRUSH	2 GAL	LOW
CORNUS SERICEA / RED TWIG DOGWOOD	5 GAL	MODERATE
GAULTHERIA SHALLON / SALAL	1 GAL	LOW
MAHONIA AQUIFOLIUM 'JOHN MUIR' / JOHN MUIR MAHONIA	5 GAL	LOW
MAHONIA NERVOSA / OREGON GRAPE	1 GAL	LOW
MYRICA CALIFORNICA / PACIFIC WAX MYRTLE	5 GAL	LOW
RIBES SANGUINEUM / RED FLOWERING CURRANT	5 GAL	MODERATE
ROSA NUTKANA / NOOTKA ROSE	5 GAL	MOD/LOW
RUDBECKIA HIRTA / BLACK-EYED SUSAN	1 GAL	MOD/LOW
SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY	5 GAL	LOW
GROUND COVERS	CONT	WATER USE
ASARUM CAUDATUM / WILD GINGER	4" POTS	LOW
DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS	1 GAL	LOW
FRAGARIA CHILOENSIS 'PINK PANDA' / PINK PANDA STRAWBERRY	4" POTS	MODERATE
OXALIS OREGANA 'SMITH RIVER' / REDWOOD SORREL	4" POTS	LOW

UNDERSTORY SCHEDULE

SHRUBS	CONT	WATER USE
HEUCHERA X 'LILLIAN'S PINK' / LILLIAN'S PINK CORAL BELLS	1 GAL	MOD/LOW
MAHONIA AQUIFOLIUM 'JOHN MUIR' / JOHN MUIR MAHONIA	5 GAL	LOW
ROSA NUTKANA / NOOTKA ROSE	5 GAL	MOD/LOW
FERN	CONT	WATER USE
ASPLENIUM TRICHOMANES / MAIDENHAIR SPLEENWORT	1 GAL	LOW
ATHYRIUM FILIX-FEMINA / COMMON LADY FERN	1 GAL	MODERATE
BLECHNUM SPICANT / DEER FERN	1 GAL	LOW
DRYOPTERIS EXPANSA / SPREADING WOOD FERN	1 GAL	LOW
GYMNOCARPUM DRYOPTERIS / OAK FERN	5 GAL	MOD/LOW
POLYSTICHUM MUNITUM / WESTERN SWORD FERN	1 GAL	MODERATE
WOODWARDIA FIMBRIATA / GIANT CHAIN FERN	5 GAL	MODERATE
GROUND COVERS	CONT	WATER USE
ASARUM CAUDATUM / WILD GINGER	4" POTS	LOW
CORNUS CANADENSIS / BUNCHBERRY DOGWOOD	FLAT	MODERATE
OXALIS OREGANA 'SMITH RIVER' / REDWOOD SORREL	4" POTS	LOW
SATUREJA DOUGLASII / YERBA BUENA	1 GAL	LOW

PLANTING SCHEDULES

RTS Ped Bridge West Landing Architectural Materials and Elements



LANDING ELEMENTS

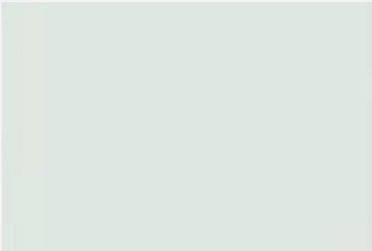


Column Shroud
Perforated Panel, Stainless Steel

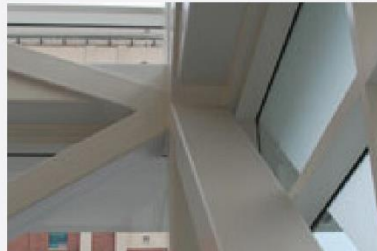


Soffit
Wood Slat Appearance

ELEVATOR ENCLOSURE

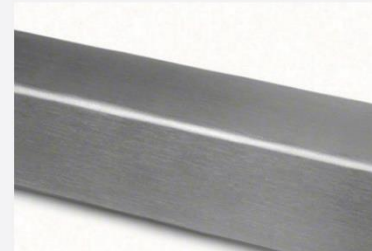


Glazing
Laminated Glass, Clear

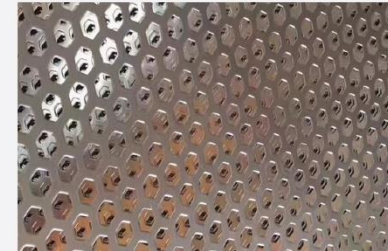


Exposed Structure
Coated Tube Steel

GUARDRAIL



Posts and Rails
Stainless Steel, Satin



Infill Panel
Perforated Panel, Stainless Steel

PLAZA HARDSCAPE



Plaza Paver A
Precast Unit Paver, Harvest



Plaza Paver B
Precast Unit Paver, Latte



Pathway Concrete Paving
Cast-in-Place, Integral Color, Light Etch

LANDING HARDSCAPE



Pedestrian Path Accent Band
Cast-in-Place, Integral Color, Heavy Etch



Pedestrian Path Field
Cast-in-Place, Integral Color, Light Etch



Median Curb & Planter Wall
Cast-in-Place, Integral Color, Trowel Finish



Bicycle Path Accent Band
Cast-in-Place, Integral Color, Heavy Etch



Bicycle Path Field
Cast-in-Place, Integral Color, Light Etch

TACTILE INDICATORS



Integral Tactile Wayfinding Bars
Contrasting Color, Material TBD



Tactile Wayfinding Bars
Surface-mounted, Stainless Steel



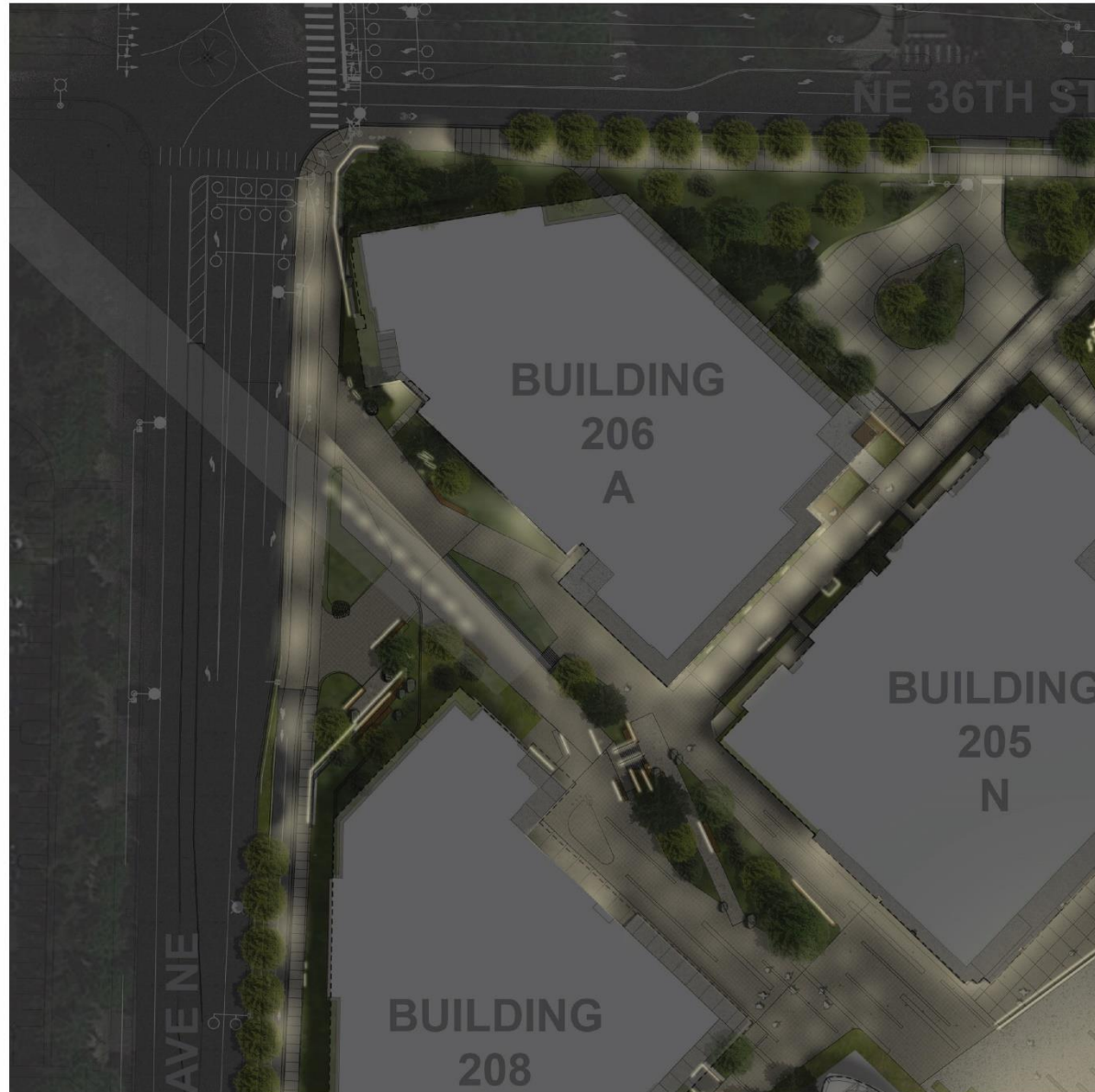
Tactile Warning Domes
Surface-mounted, Stainless Steel

HARDSCAPE FEATURES MATERIAL BOARD

DRB Submittal MS West Campus Ped Bridge Landing

West Landing Lighting Design





Pedestrian Bridge typology- 15' Multihead Pole
156th Street Right of Way typology: LP Albertslund



Louis Poulsen Albertslund Mini Post
H: 21.6" | Ø: 26" | H: 14' (pole)



BK Denali
H: 8" | Ø: 3" (fixture) | H: 20'-30'



Louis Poulsen Capsule
H: 7.5" | Ø: 16.4"(fixture) | H: 14' (pole)



Louis Poulsen Nyx
H: 7.5" | Ø: 16.4"(fixture) | H: 14' (pole)



Plaza

On-grade bicycle path

Stair

Elevator

Planters

Bridge Tension Zone

Under Bridge Zone

Meadow

Ramped Bicycle Path



Alight X4

L: 3.89" | W: 3.89" | H: 35.75"

Luminous face fixture integrated onto bridge stanchions



Proposed Light Locations

Proposed Light Locations



Small-scale fixture integrated onto elevator canopy and roof underside edge

Luminii Bosca Wet

D: 0.60" | W: 0.60"



Luminous face lighting integrated onto sides of the bridge

Alight X4

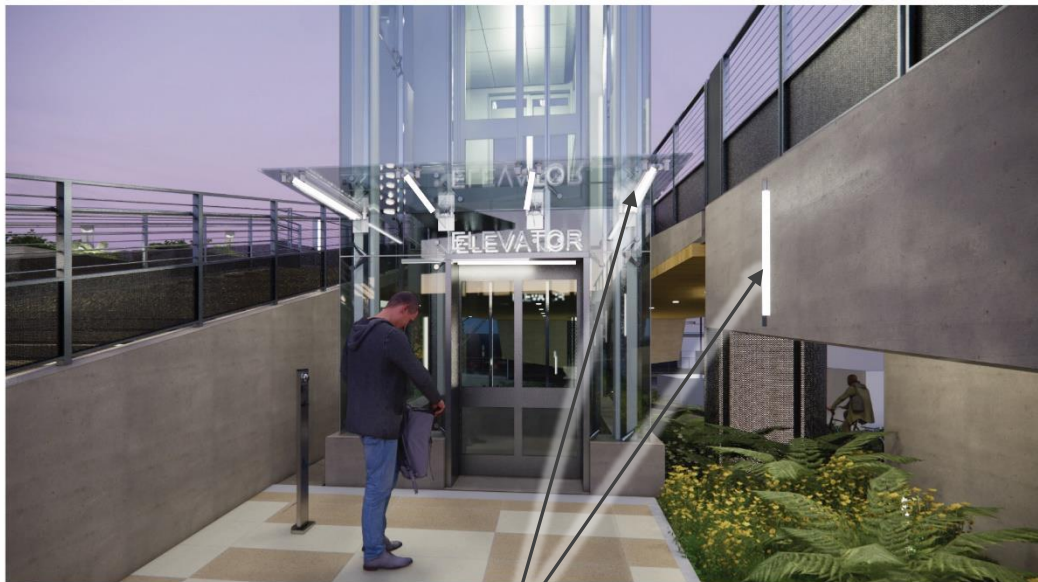
L: 3.89" | W: 3.89" | H: 23.75"



Cove lighting at bridge ramp overhang to illuminate bridge side and vegetation

Q-Tran Wurm-SW

L: 19' | W: 0.61" | H: 0.29"



Proposed Light Locations



Proposed Handrail Light Locations



Integrated handrail lighting at stair

Klik LEDPod 40

H: 1.18" | Ø: 0.98" | Spacing: 24" o.c.



Proposed Light Locations



Alight X1

L: 3.89" | W: 3.89" | H: 35.75"

Luminous face bollard to illuminate path across plaza



Louis Poulsen Albertslund Mini Post

H: 21.6" | Ø: 26" (fixture)

Existing fixture at west side of plaza



Luminous trim downlight at underside of the bridge

USAI BeveLED 2.2 Glow 1.5" Drop

D: 1.6875" (and 1" regress) | Ø: 4.5"



Lighting integrated onto column enclosure

Q-Tran Wurm-SW

L: 19' | W: 0.61" | H: 0.29"



Luminous face lighting integrated onto sides of the bridge

Alight X4

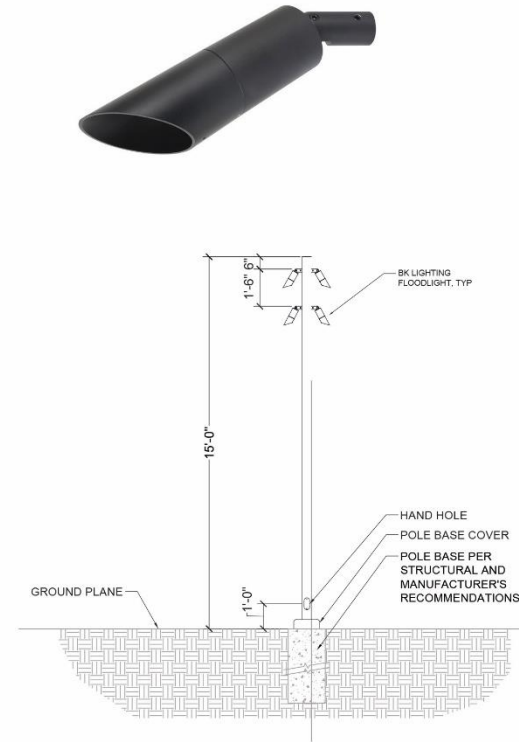
L: 3.89" | W: 3.89" | H: 23.75"

Proposed Light Locations



Proposed Light Post Locations

Multihead pole to illuminate bike path



BK Denali

H: 8" | Ø: 3" (fixture) | H: 15' (pole)



Erco Midipoll

H: 20.625" | Ø: 4.75"

Luminous bollard to illuminate within lower-level plantings



Proposed Light Locations



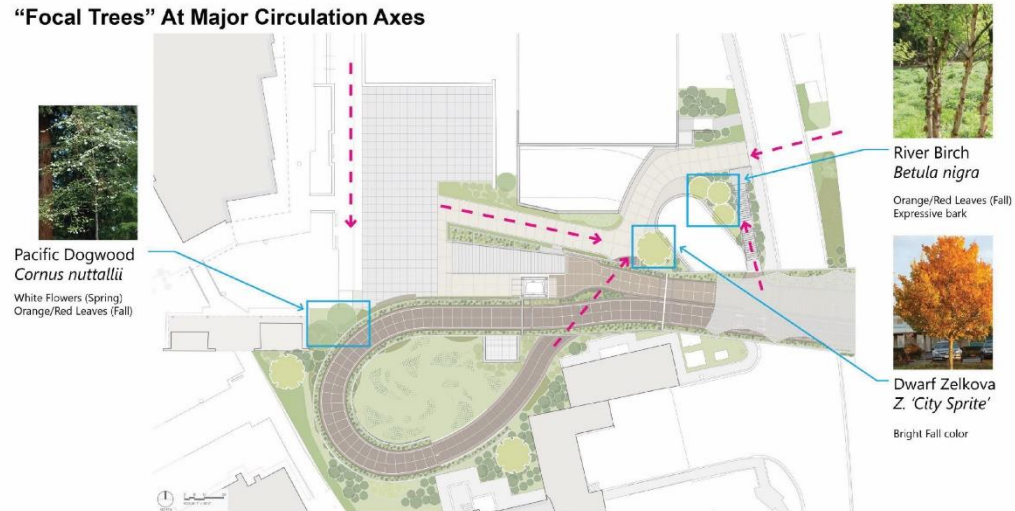
Ground-mounted uplight to illuminate featured trees



Ligman UPR 50282

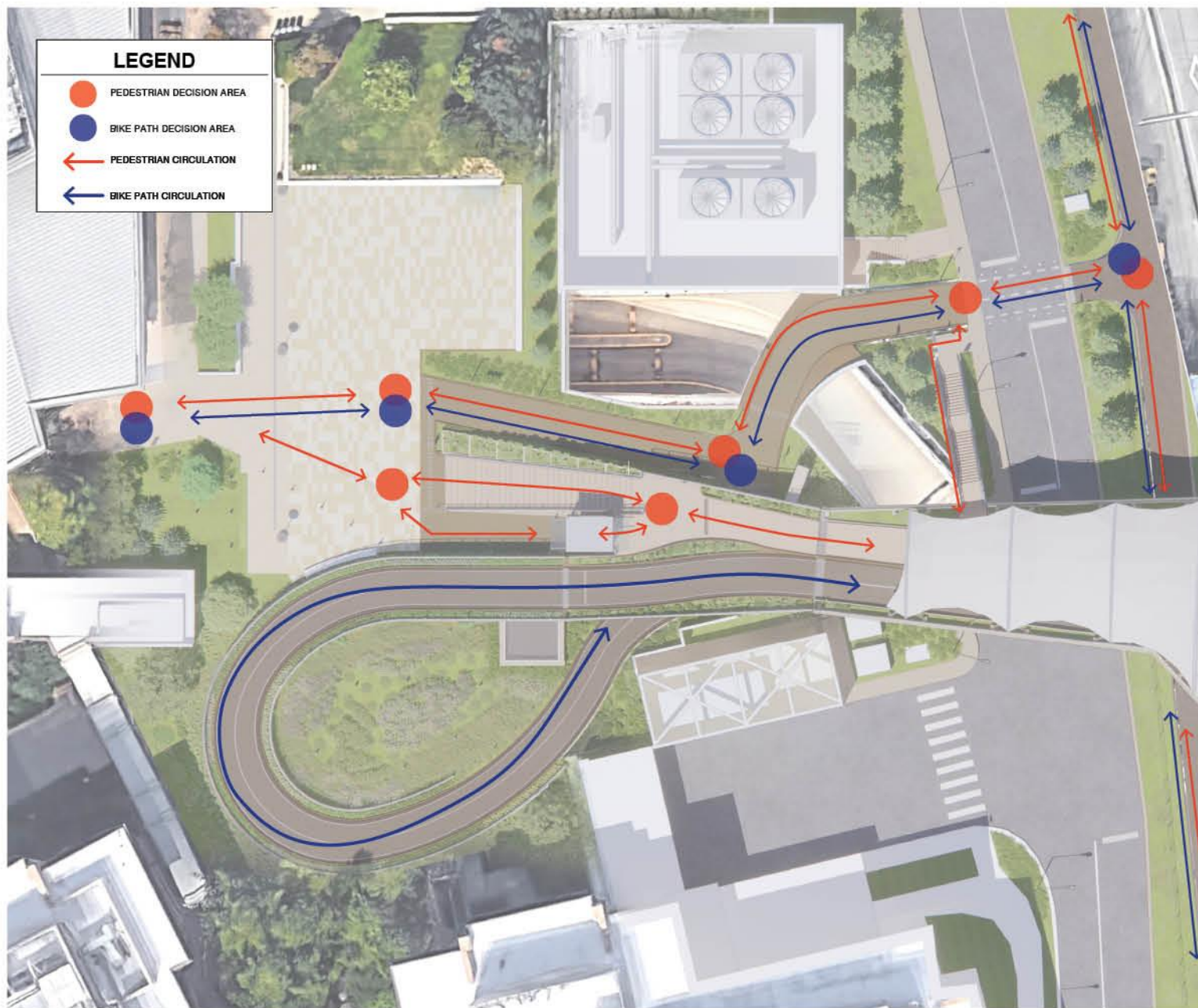
H: 8.26" | Ø: 6.2"

"Focal Trees" At Major Circulation Axes

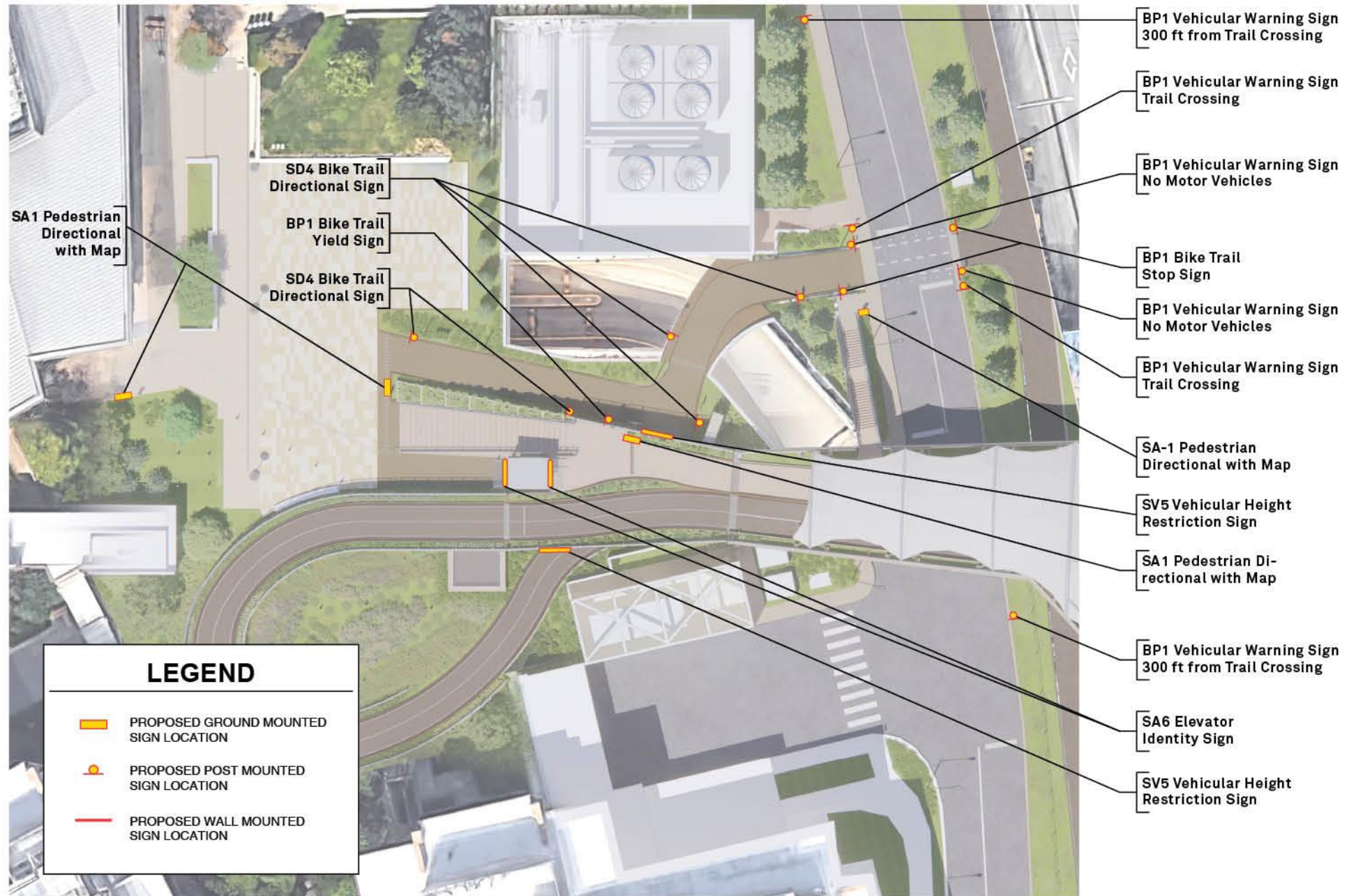


RTS Ped Bridge West Landing Signage and Wayfinding





WAYFINDING CIRCULATION



WAYFINDING PROPOSED SIGN LOCATIONS

Route 520 Highway

